



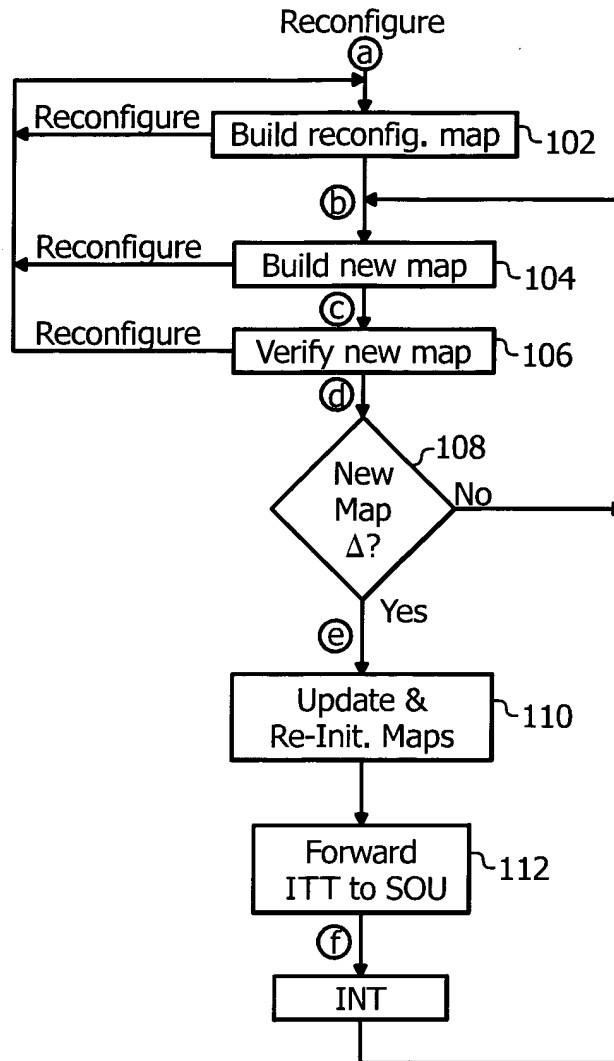
METHOD FOR REAL-TIME DETECTION OF WHICH UNITS ARE PRESENT ON AN ARCNET

Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

1/15



**Figure 1**

METHOD FOR REAL-TIME DETECTION OF WHICH UNITS ARE PRESENT ON AN ARCNET

Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

2/15

202

(b)

Store addresses of  
tokens that have a  
response and delete  
them from old map.

Reconfigure

204

New  
Map  
Built?

No

Yes

C

(b)

Reconf.  
Detect?

Yes

a

No

Token  
Detect?

Yes

My  
Address?

Yes

c

No

Response?

Yes

Write 1 to New Map  
& write 0 to Old Map

210

New  
Map Built

Response  
Equals No  
Timeout

**Figure 2a**

**Figure 2b**

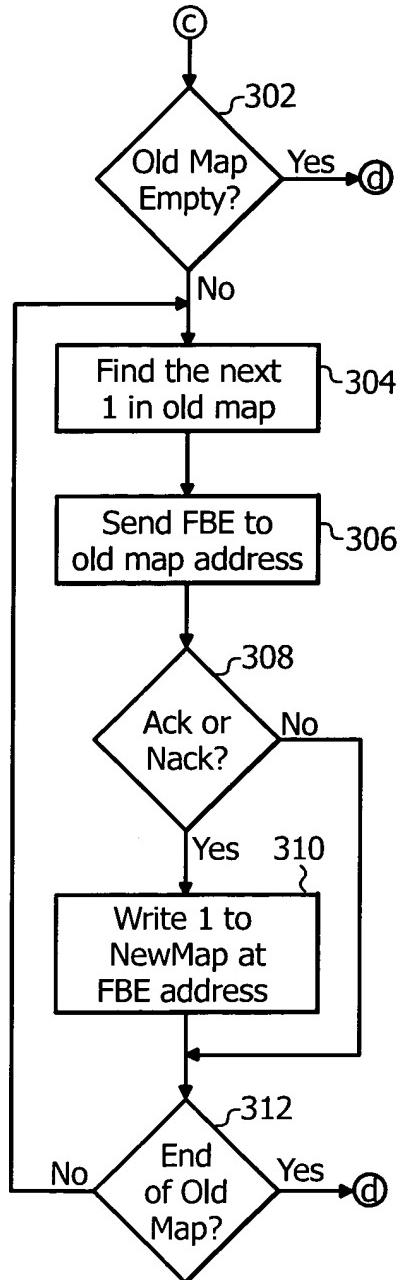
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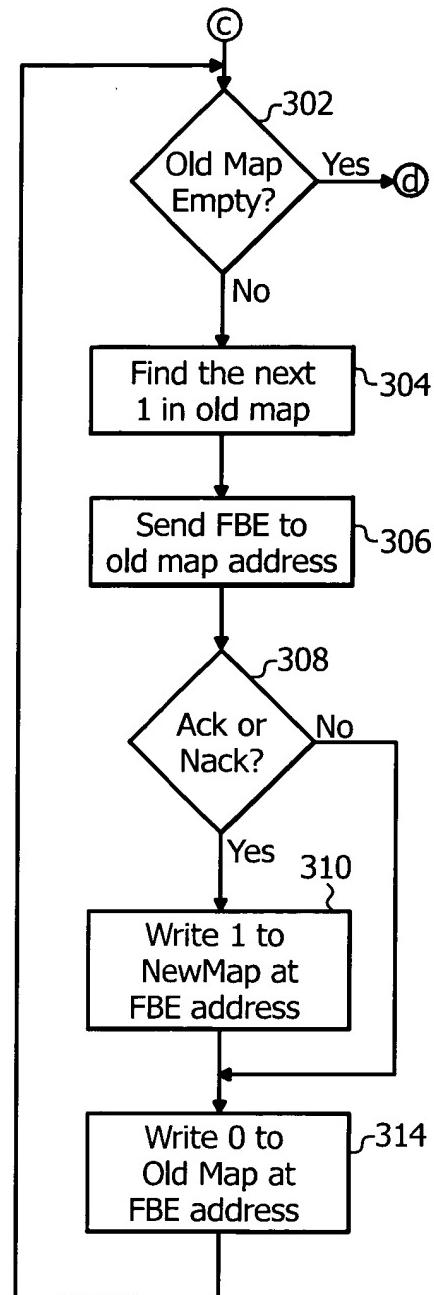
Serial No.: 09/941,908

REPLACEMENT SHEET

3/15



**Figure 3a**



**Figure 3b**

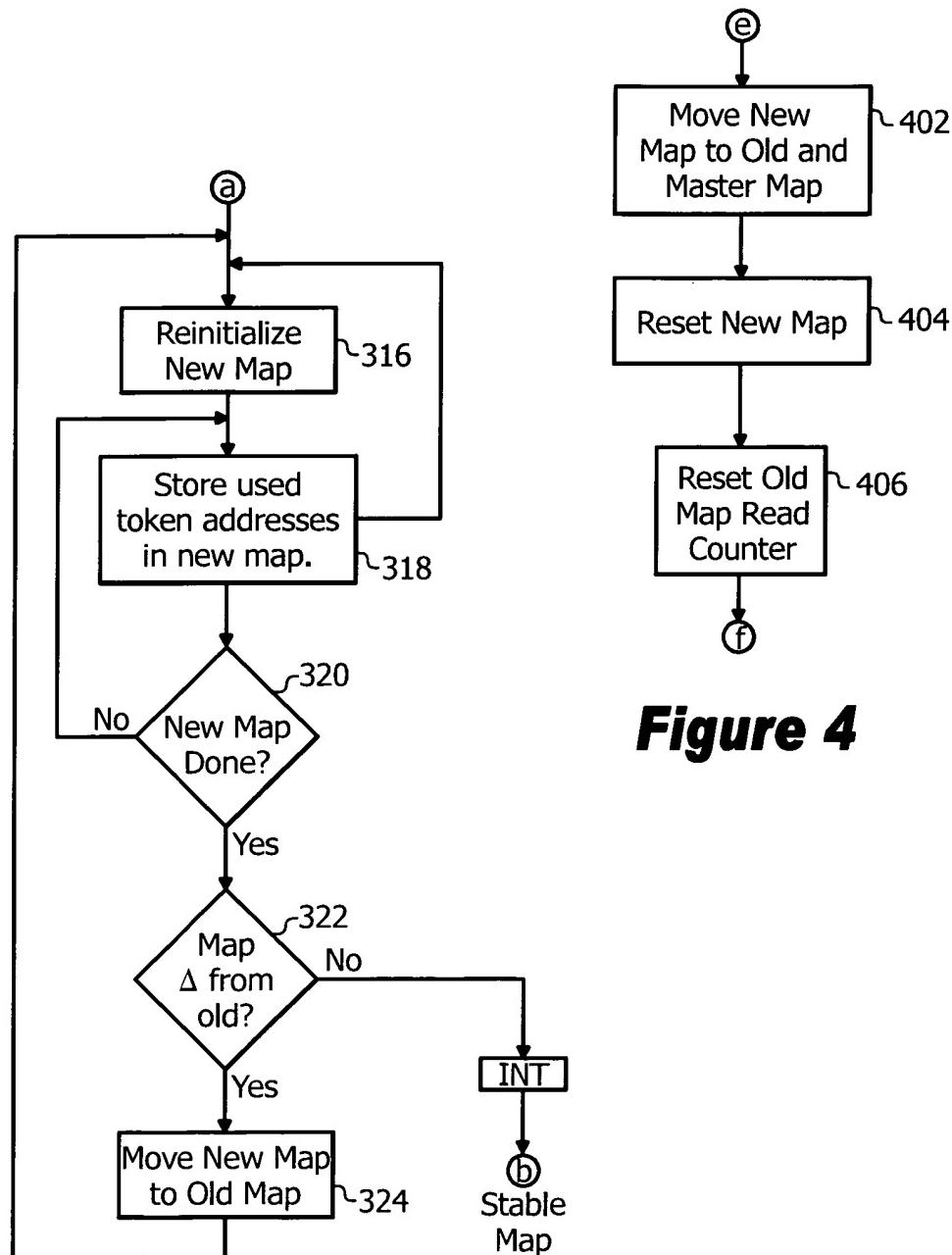
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Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

4/15



**Figure 4**

**Figure 3c**

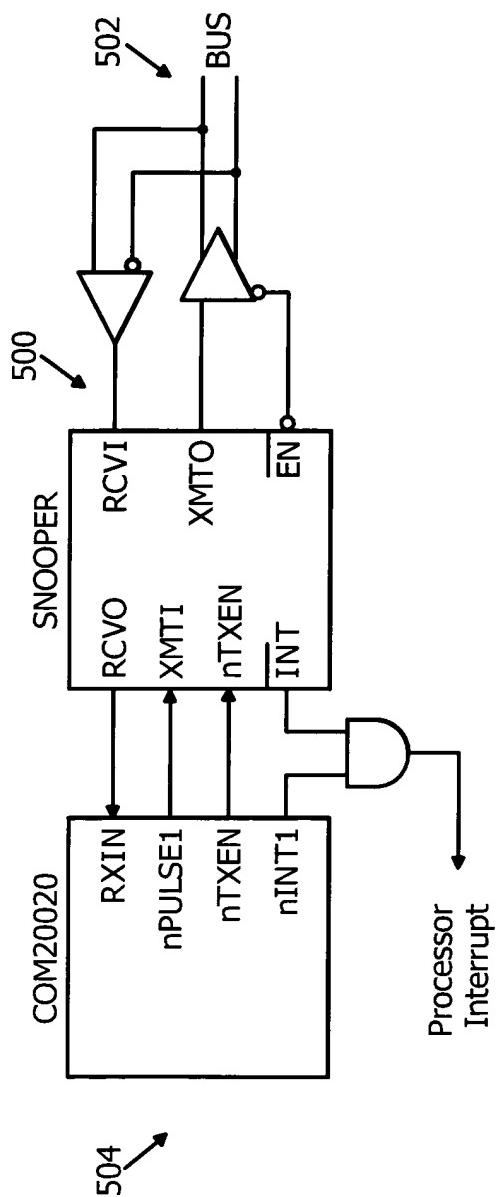
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Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

5/15



**Figure 5**

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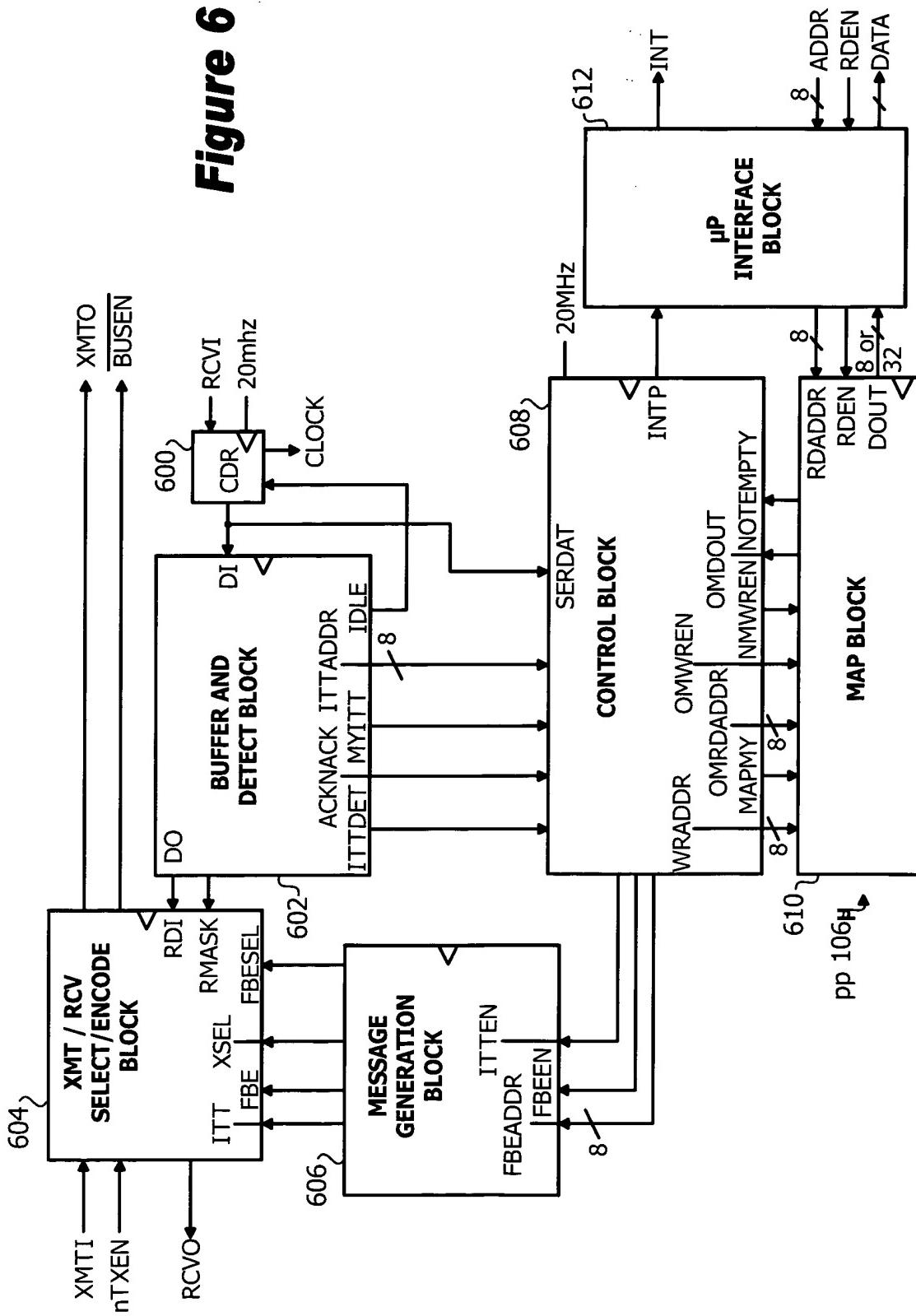
Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

6/15

**Figure 6**



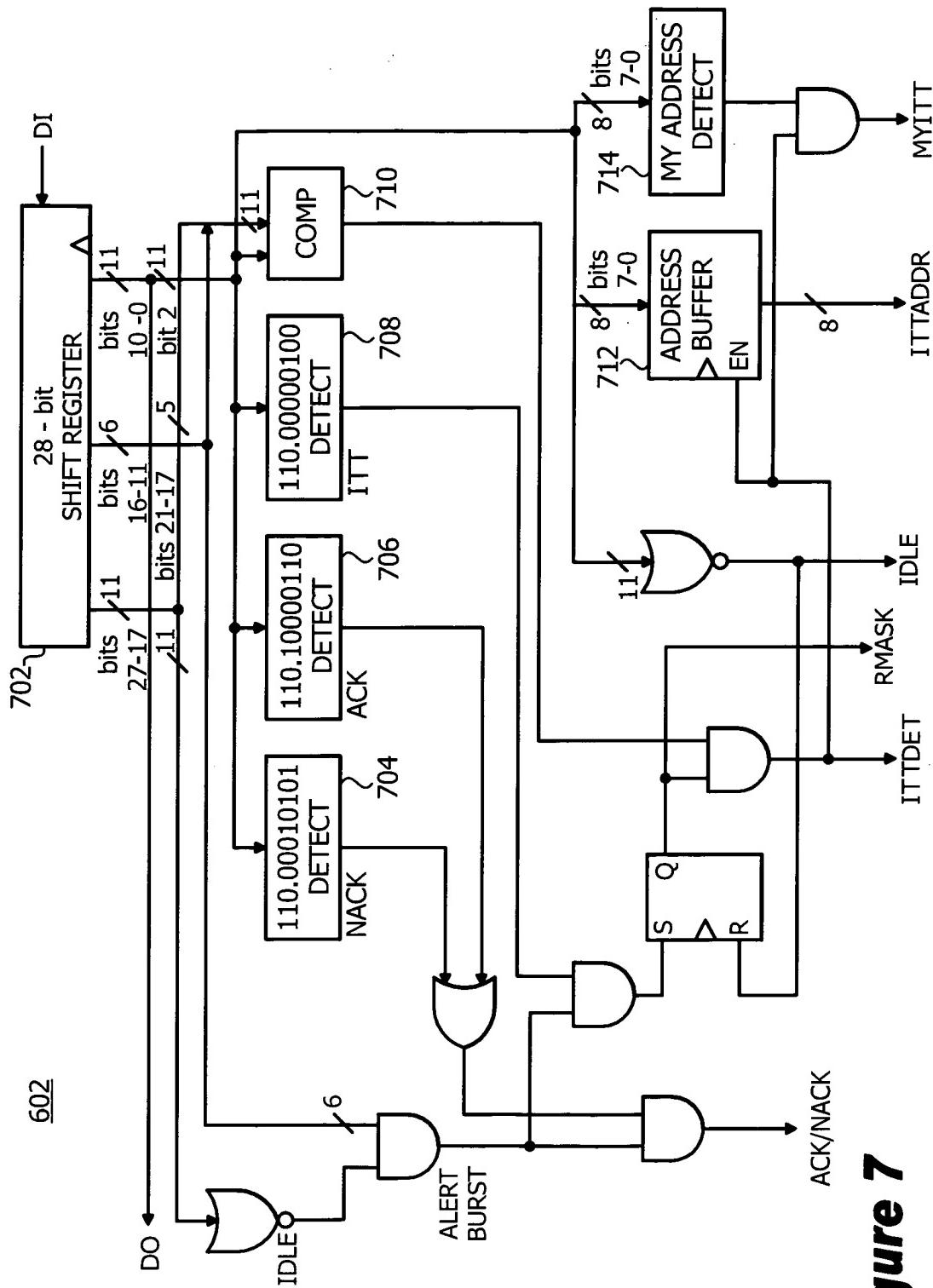
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**Steven Scott Gorshe et al.**

**Serial No.: 09/941,908**

**REPLACEMENT SHEET**

7/15



**Figure 7**

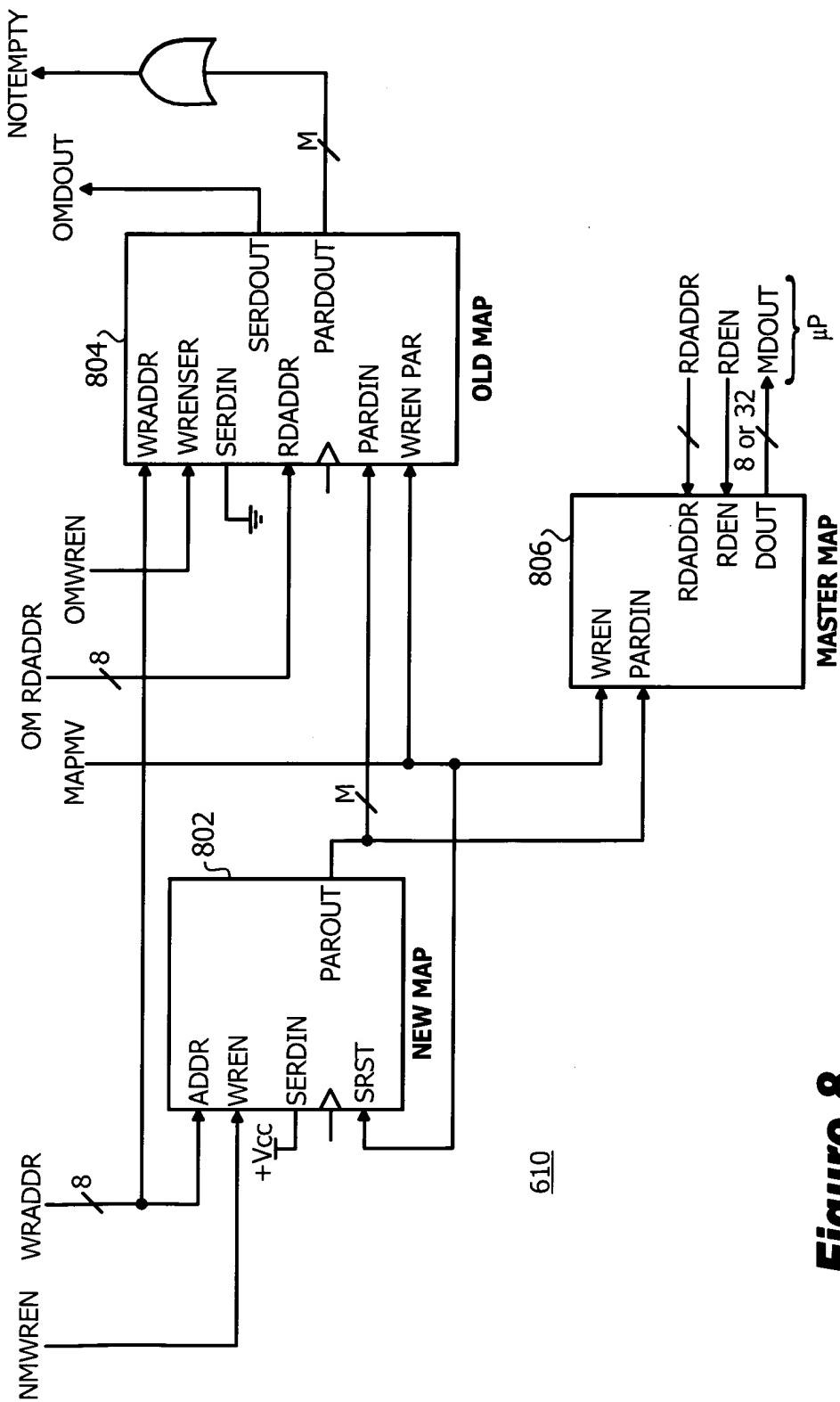
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Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

8/15



**Figure 8**

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Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

9/15

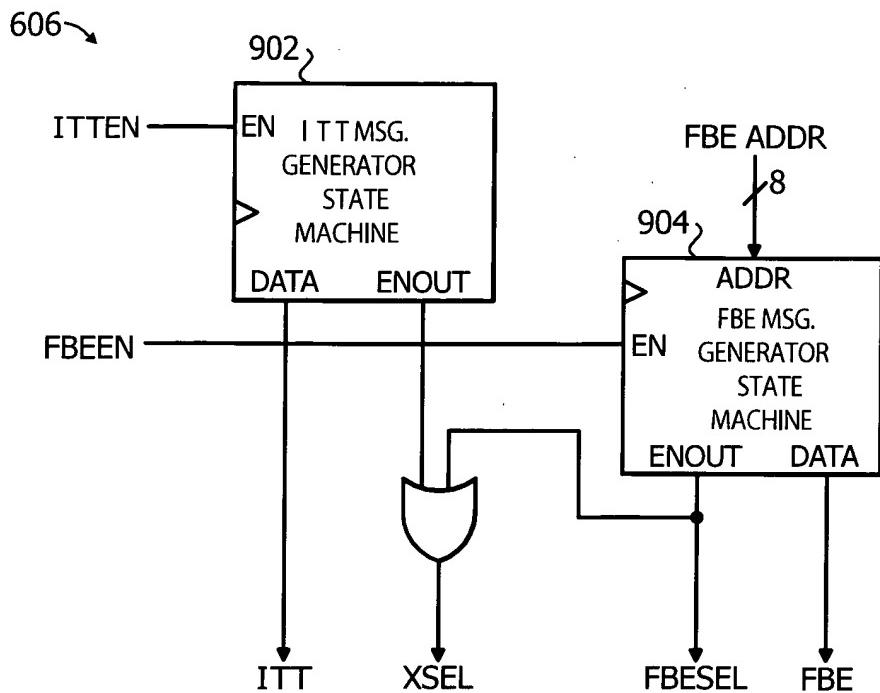


Figure 9

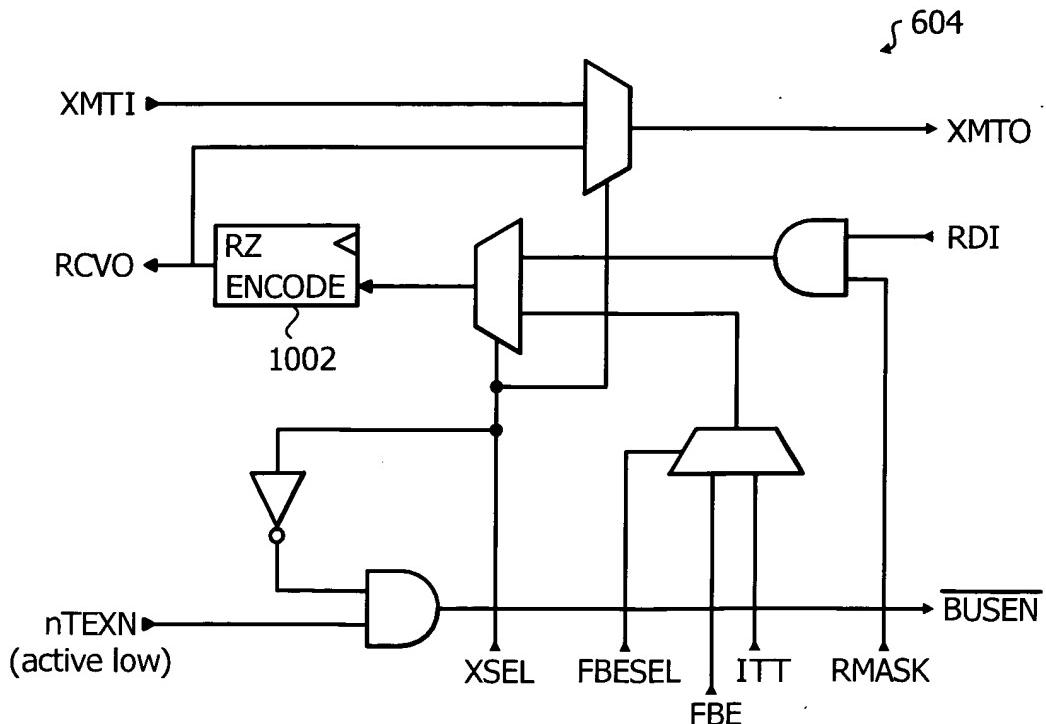


Figure 10

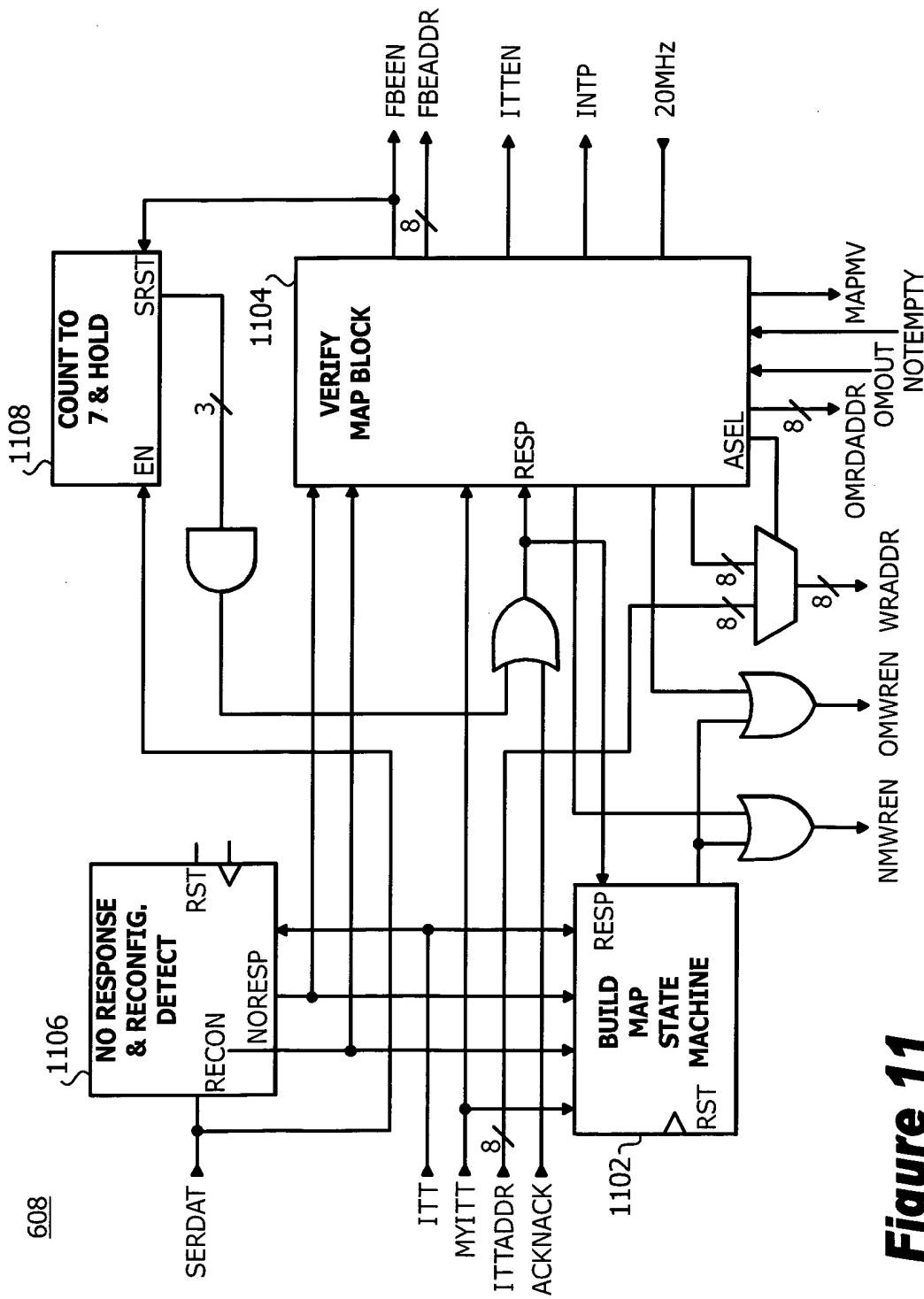
METHOD FOR REAL-TIME DETECTION OF WHICH UNITS ARE PRESENT ON AN ARCNET

Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

10/15



**Figure 11**

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Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

11/15

1106

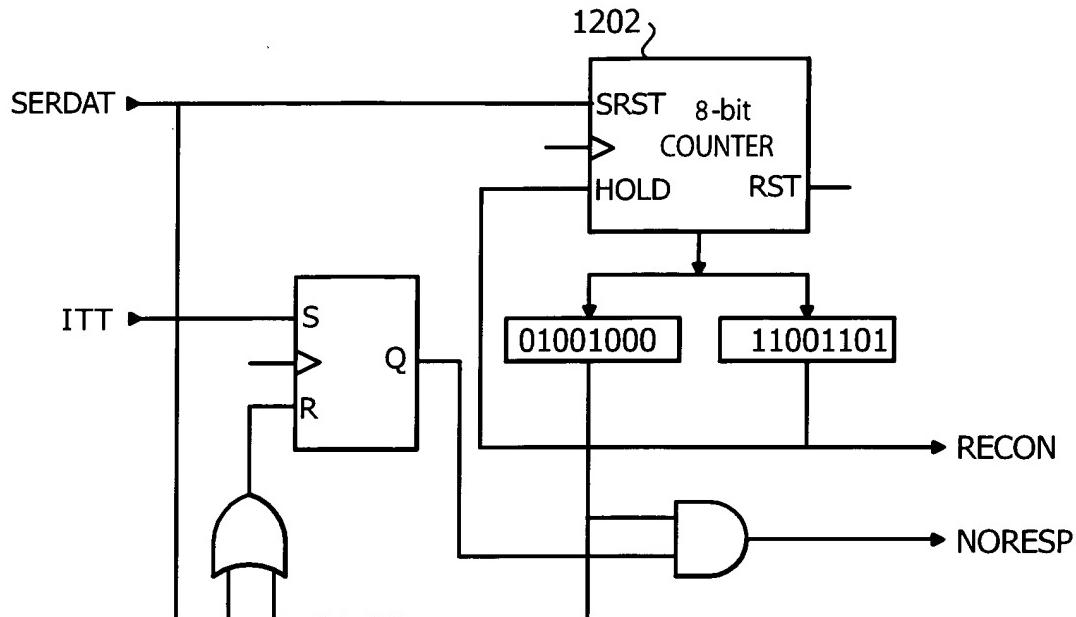


Figure 12

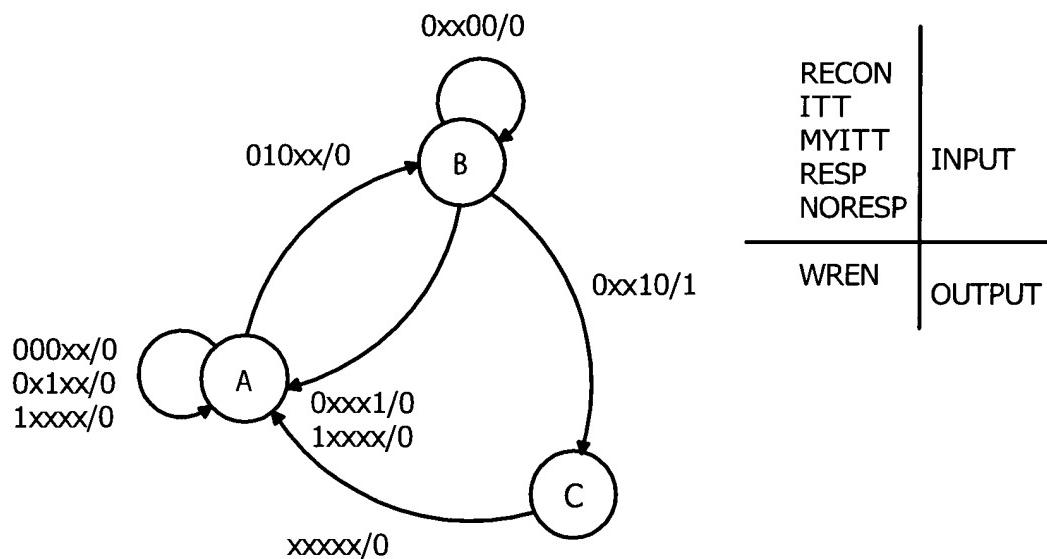


Figure 13

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Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

12/15

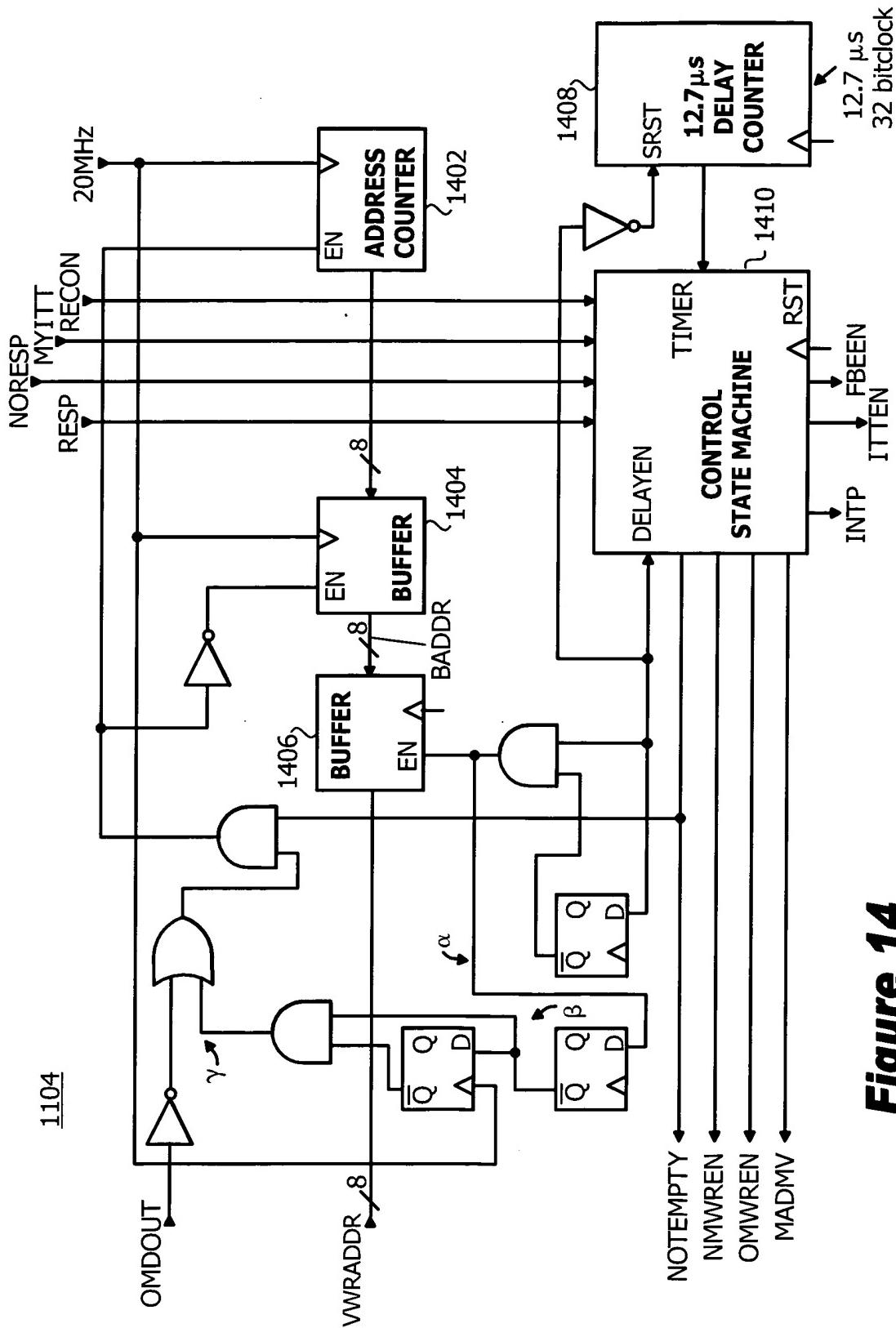


Figure 14

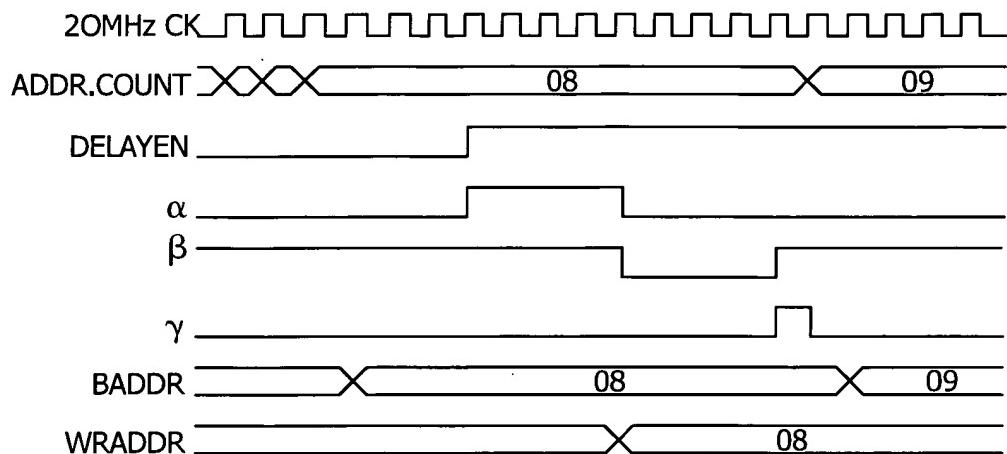
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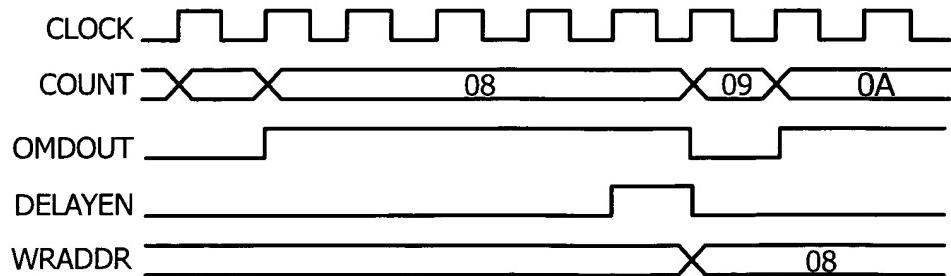
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13/15



**Figure 15**



**Figure 17**

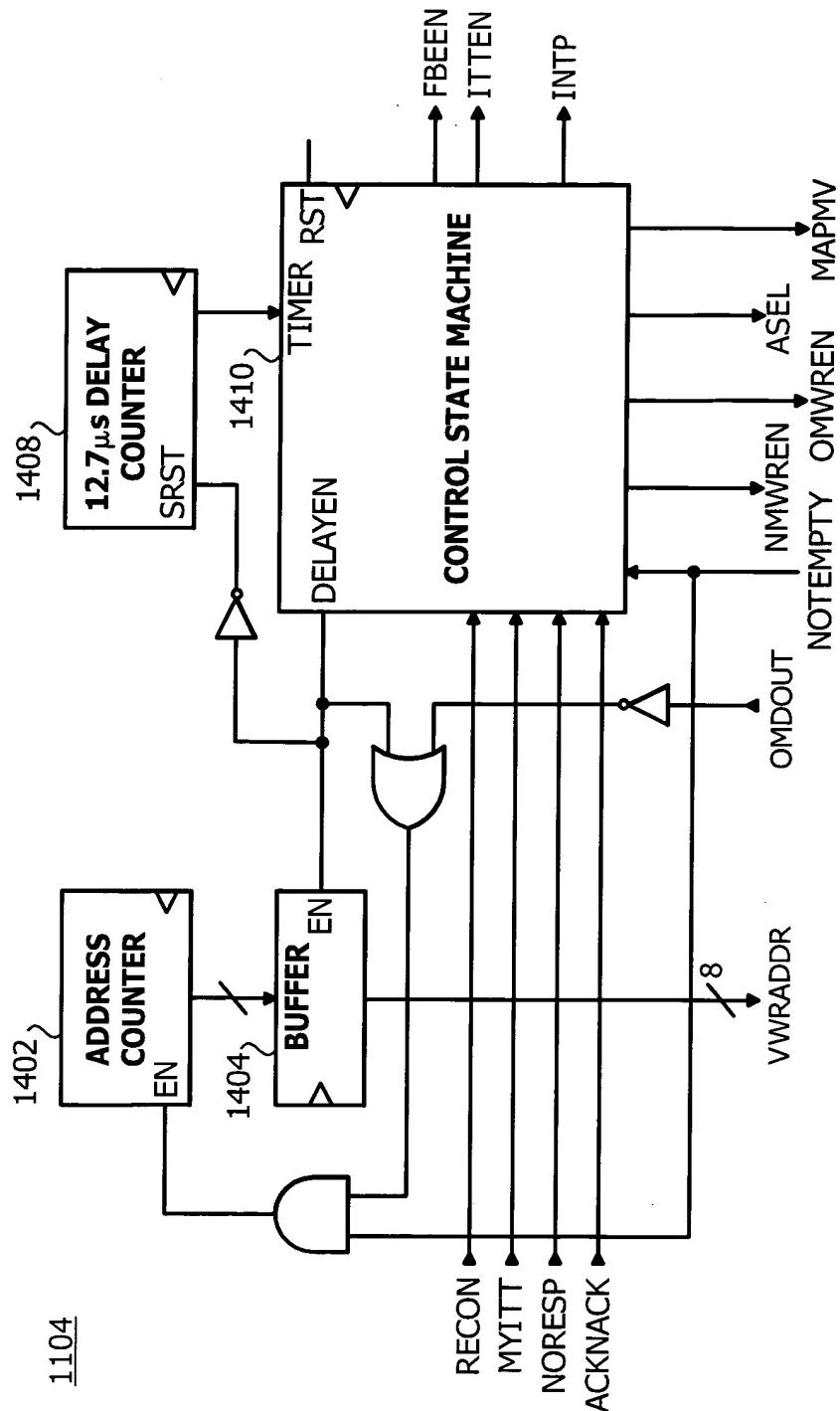
METHOD FOR REAL-TIME DETECTION OF WHICH UNITS ARE PRESENT ON AN ARCNET

Steven Scott Gorshe et al.

Serial No.: 09/941,908

REPLACEMENT SHEET

14/15



**Figure 16**

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Steven Scott Gorshe et al.

Serial No.: 09/941,908

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15/15

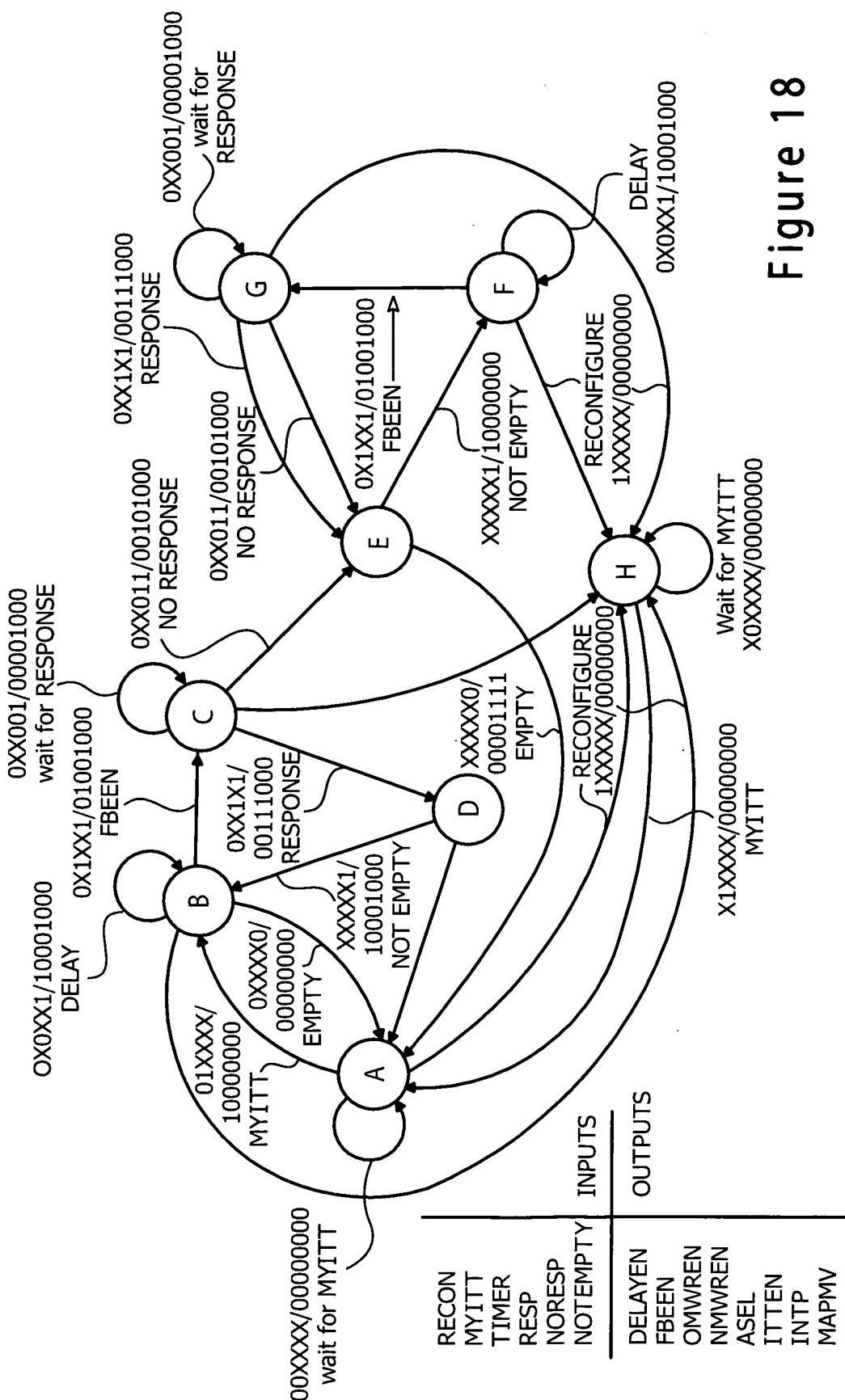


Figure 18